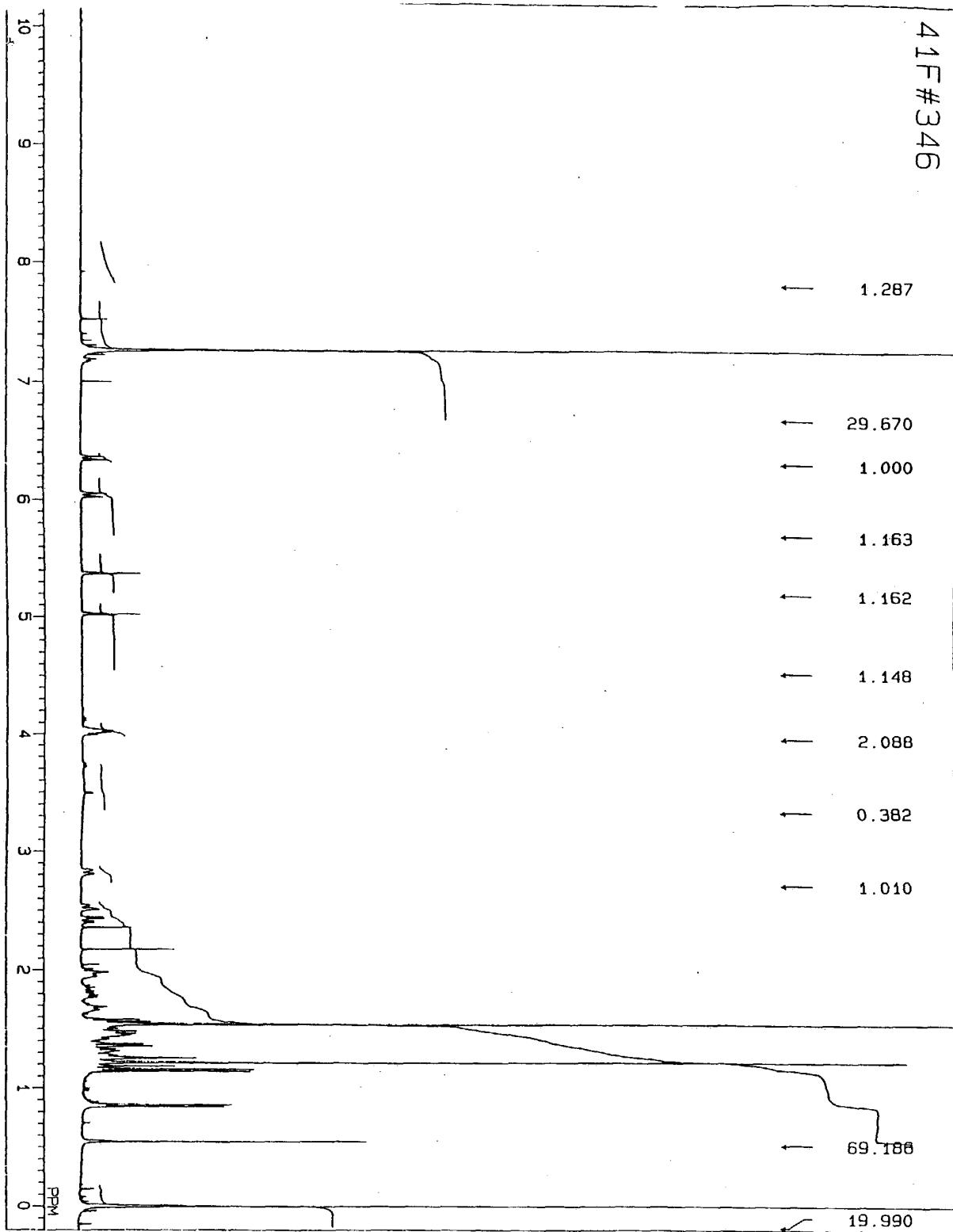
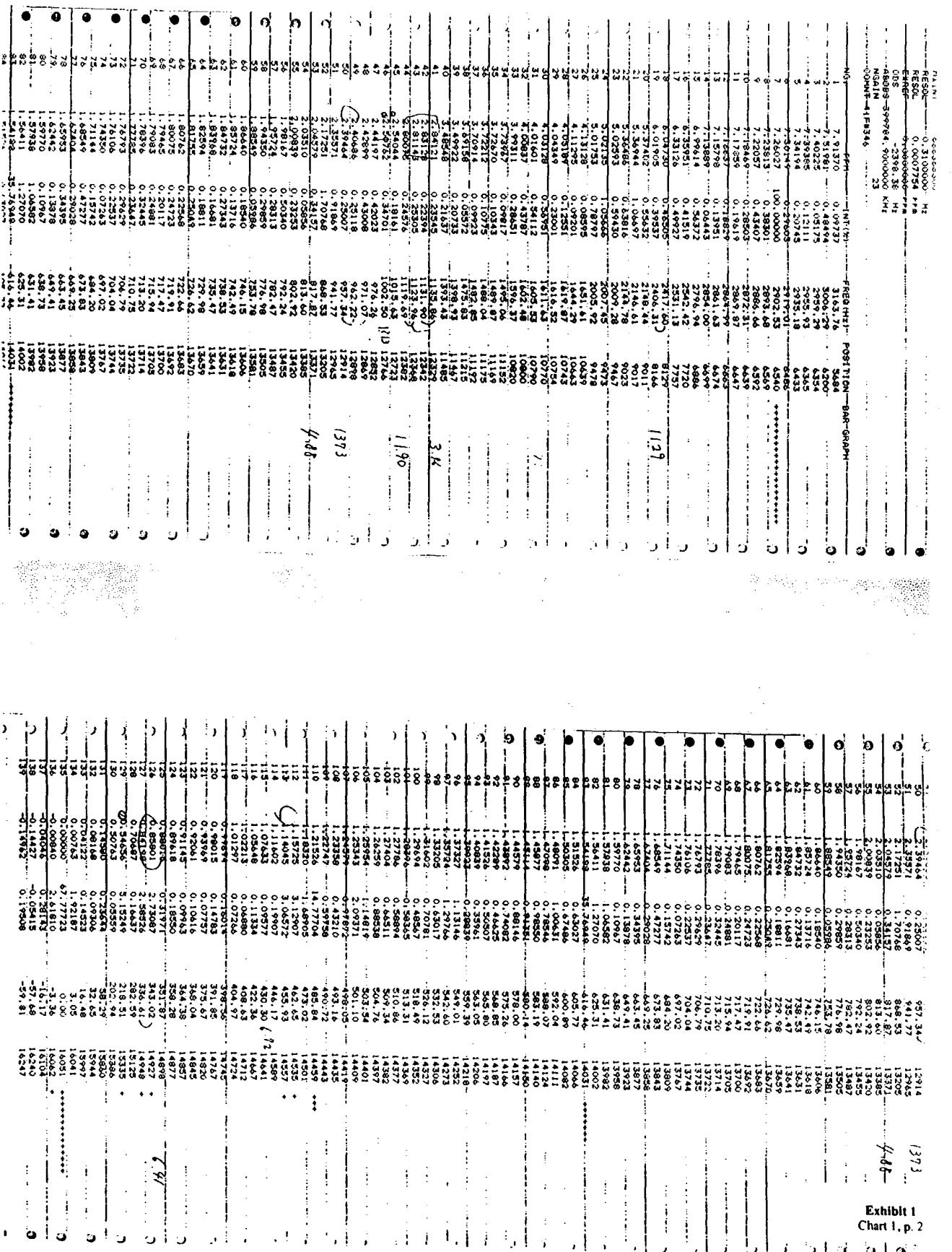


41F#346

Exhibit 1  
Chart 1, p. 1  
11:26:05



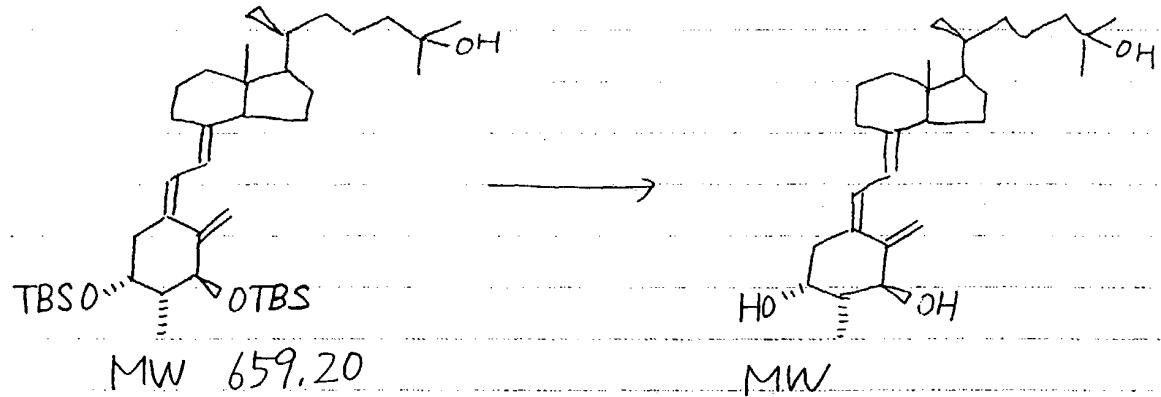
SLVNT CDCL<sub>3</sub>  
QBNUC 1H  
QBFRQ 399.65 MHz  
QBSET 124.00 kHz  
QBFIN 10905.1 Hz  
PW1 5.9 us  
POINT 32768  
SAMPO 32768  
SCANS 9216  
DUMMY 0  
FREQU 5000.0 Hz  
FILTER 5000 Hz  
ACQTM 3.277 sec  
PD 5.000 sec  
RGAIN 25  
BF 0.10 Hz  
T1 0.0 %  
T2 0.0 %  
T3 90.0 %  
T4 100.0 %  
EXMOD SGNON  
DFILE {100, 140} FNO346  
SHMFL TH5  
SPEED 15 Hz  
OPERATOR J.SHI MODE



**Exhibit 1**  
Chart 1, p. 2

4.5

#346



{ #345のworkup

{ CSA                  11mg  
MeOH                  1ml

20:30~

rtかくはん後 反応液から MeOH を

とばし 水を加え EA 抽出

11:00

brine 洗い · MgSO<sub>4</sub> 上 脱水

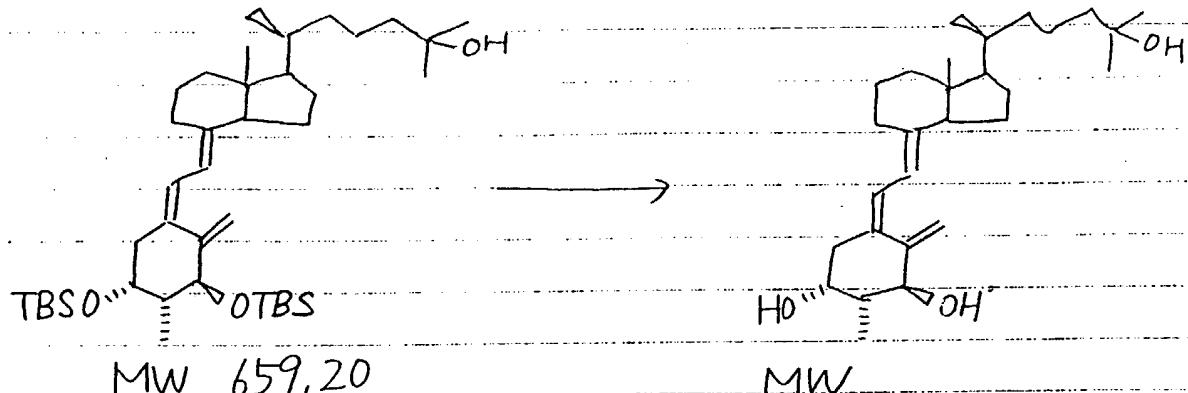
ろかエバボ

シリカゲルカラムで分離後 4.5mg  
HPLC カラム (ODS(18)) で分離、 (Y. 31%)  
RP-18

Exhibit I  
Note I

4.5

#346



{ #345のworkup

{ CSA	11mg
MeOH	1ml
	20:30~

[ rt かくはん後 反応液から MeOH を

とばし、水を加え EA 抽出。

brine 洗い、MgSO<sub>4</sub> 上 脱水

ろ過、エタノール

11:00

[ シリカゲルカラムで分離後 etha ] 4.5mg  
 [ HPLC カラム (ODS(18)) で分離後, ] (y.31%)

RP-18

After stirring at rt, MeOH was evaporated from reaction mixture,

water was added and extracted with EA

washed with brine, dried over MgSO<sub>4</sub>

filtered, evaporated

After separation by silica gel column chromatography  
separation by HPLC column (ODS (18))

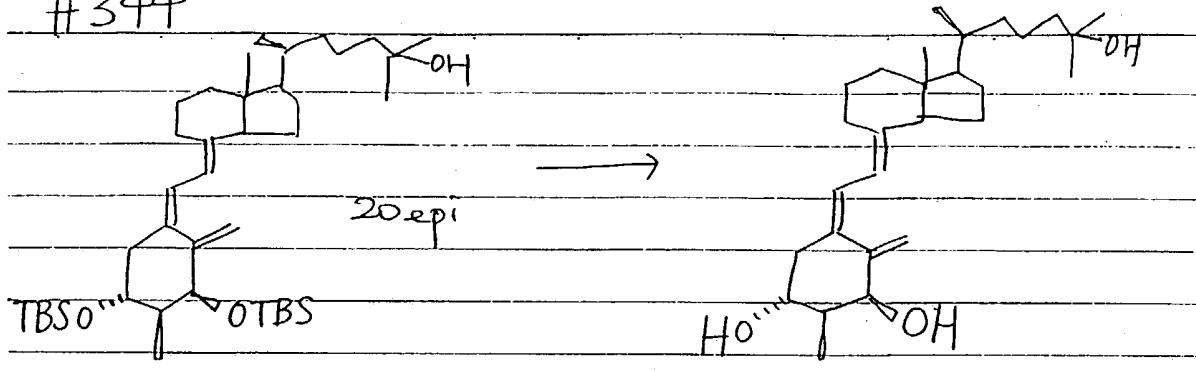
33.8904  
92.6

30.2

33.5847  
59.4

10 mg

#344



MW

MW 430.67

{ #343 木ゴ"体 work up

{ CSA MW 232.30 11mg  
MeOH 1 ml

Ar下 rt 水浴 14:20 ~

9:00

~50ml

MeOHを留去し水を加え EA抽出, brine 分離.

MgSO<sub>4</sub>上層水. 3% エタノール.

シリカゲルカラム ( $\phi 0.9\text{ cm}$  / 10cm height, EA:n-hex = 1:1)  
1:2精製

9.3mg (y. 63%) → HPLC 分離.

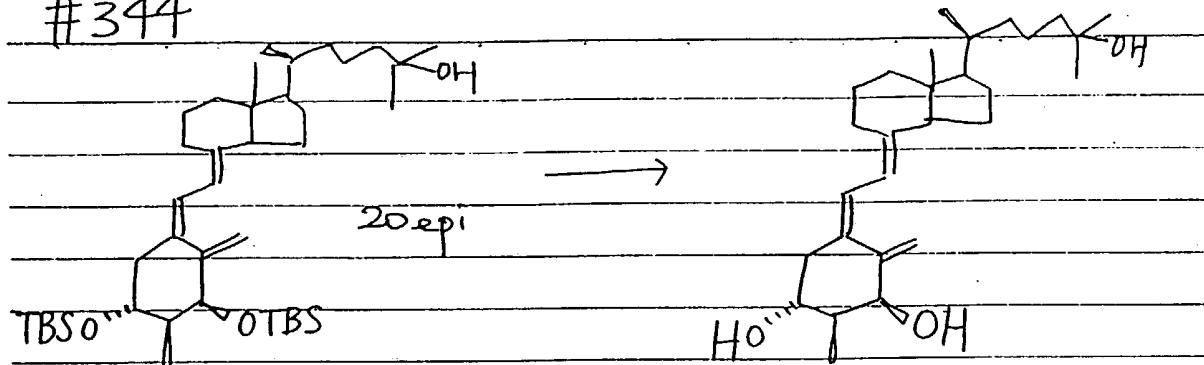
EA:n-hex = 1:1

Reaction	3-OH free?	UV	UV
SM	3-OH free? 是	UV →	UV → ?
RM	UV →	UV → ?	UV → ?

33.8904  
92.2633.5847  
59.4

1.0 mg

#344



MW

MW 430.67

[protective material]

{ #343 [ホゴ"本] work up }

{ CSA MW 232.30 11mg stirring under Ar at rt  
MeOH 1 ml }

[Ar下 rt かくはん] 14:20 ~

: 9:00

~50ml

MeOHを留去し、水を加え、EA抽出、brine  $\frac{1}{2}$  u.MgSO<sub>4</sub>上脱水、3か: エバーハードルト。シリカゲルカラム ( $\phi$  0.9 cm 10cm height, EA=n-Hex = 1:1)

にて精製

9.3mg (y. 63%)

 $\rightarrow$  HPLC (T<sub>1</sub> 分離).

MeOH was distilled away, water was added, extracted with EA, washed with

dried over MgSO<sub>4</sub>, dehydration, filtration, evaporation

purification by silica-gel column chromatography

EA=n-Hex = 1:1

( $\phi$  0.9 cm 10 cm height, EA/n-Hex = 1:1) $\rightarrow$  Separation by H